



Site Image Management Profile For:

Orthopedic

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CR vs Film Worksheet

The attached proforma provides a detailed business case comparison between film-based and filmless medical imaging operations.

Site volume data, images per exam, retake rate, lost film

Film/chemistry expenses

Space allocation costs, equipment, dark room, film storage

CR Equipment, software, network, maintenance costs

Per study resources physicians, technologist, support staff

Final comparison film based, CR projected savings.

Note: Items in red are client-specific variables to be modified.



Site Information

Film Based Operation

Dailey procedure volume	35
Annual procedure volume	9,100
Images per Exam	2.2
Retake Rate	10.0%
Lost Film Rate	5.0%

Total Annual Images	23,023
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Total Printed Images	23,023
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CR Based Operation

Dailey procedure volume	35
Annual procedure volume	9,100
Images per Exam	2.2
Retake Rate	0.0%
Lost Film Rate	0%

Total Annual Images	20,020
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Total Printed Images	20,020
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Material

Material Expense (per sheet)

	Film Based Operation		CR Filmless Operation % used	
Film	1.00			
Chemicals/Water	0.45	CD/DVD's	40%	0.25 2,002.00
Total consumable cost per Exam	<u>1.45</u>			
Annual Expense	33,383.35			2,002.00



Facilities

Facilities Requirements

Film Based Operation				Filmless Operation			
	<u>Sq Ft</u>	<u>\$/Sq Ft</u>	<u>Total</u>		<u>Sq Ft</u>	<u>\$/Sq Ft</u>	<u>Total</u>
Imaging Equipment	100	100	10,000	Imaging Equipment	100	100	10,000
Dark Room	30	100	3,000	CR scanner	10	100	1,000
Printers	10	100	1,000	Digital Archive / Server	10	100	1,000
Film Storage	150	100	15,000	Soft Copy Review Station	30	100	3,000
Film Review Station	20	100	2,000				
Total, Film	310		31,000	Total, FFDM	150		15,000



Equipment

Equipment

	<u>Film-Based Operation</u>	<u>CR Filmless Operation</u>	
Capital Costs			
X-Ray Equipment			
Acquire Software	-		
PACS system	-	42,000	
Additional Workstations	-	4,800	
Laser Printers	-		
Processors	13,500	-	
Additional Cassettes	3,000	4,800	
CR Units	-	54,700	
Network Infrastructure Costs	-	-	
Total Capital Costs	16,500	106,300	
Depreciation Years	5.0	5.0	
Depreciation Expense, Annual	3,300	21,260	Straight Line 12% of Capital Purchase
Maintenance, Annual	1,200	12,756	
Total Annual Expense	4,500	34,016	



Preforma Image Management Summary For:

Orthopedic

Exams:	\$/Study			Images:	\$/ Image		
	Film Based Operation	CR Filmless Operation			Film Based Operation	CR Filmless Operation	
9,100				20,020			
Material	3.67	-		Material	1.67	-	
Facilities	3.41	1.65		Facilities	1.55	0.75	
Equipment	0.49	3.74		Equipment	0.22	1.70	
Resources	-	-		Resources	-	-	
TOTAL	7.57	5.39		TOTAL	3.44	2.45	
Savings		(2.18)		Savings		(0.99)	

Annual Expense		
	Film Based Operation	CR Filmless Operation
Material	33,383	-
Space	31,000	15,000
Equipment	4,500	34,016
TOTAL	68,883	49,016
Annual Savings	-	19,867.35